

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/480,584	01/10/2000	Stephen Edward Hettinger	9D-HR-19167-HETTINGER 4498	
7590 06/07/2005			EXAMINER	
John S Beulich	: -		TAMAI,	KARL I
Armstrong Teasdale LLP One Metropolitan Square			ART UNIT	PAPER NUMBER
Suite 2600			2834	
St. Louis, MO	63102		DATE MAILED: 06/07/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	·		AX			
Office Action Summary		Application No.	Applicant(s)			
		09/480,584	HETTINGER, STEPHEN EDWARD			
		Examiner	Art Unit			
		Tamai IE Karl	2834			
Period fo	The MAILING DATE of this communication apported in the party of Reply	pears on the cover sheet with the c	correspondence address			
THE - External efter - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply one of the provision o	136(a). In no event, however, may a reply be tingly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed /s will be considered timely. In the mailing date of this communication. ID (35 U.S.C. § 133).			
Status						
1) 又	Responsive to communication(s) filed on 21 A	April 2003.				
2a)□	his action is FINAL . 2b) This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)⊠ 5)□ 6)⊠ 7)□	4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) is/are objected to.					
Applicat	ion Papers					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority	under 35 U.S.C. § 119		•			
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document Certified copies of the priority document Copies of the certified copies of the priority document All Copies of the certified copies of the priority document Certified copies of the priority document Copies of the certified copies of the priority document Certified Copies of the Certified Certifie	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	tion No red in this National Stage			
Attachmer	: nt(s)					
1) Notice 2) Notice 3) Information	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date 10/15/02, 9/23/02.	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:				

Application/Control Number: 09/480,584 Page 2

Art Unit: 2834

DETAILED ACTION

Specification

1. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Information Disclosure Statement

2. The examiner notes the IDS filed 10/15/2002 is a duplicate of the two previously filed IDS. Therefore it has been marked as a duplicate and placed in the file but not initialed as considered by the examiner since the references have already been considered.

Claim Objections

3. Claim 9 is objected to because of the following informalities: claim 9 does not provide antecedent basis for "said sides". Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1, 2, 4, 5, 8, 11, and 13 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Otto (US 4287662). Otto teaches a shield having an hub 41

Application/Control Number: 09/480,584 Page 3

Art Unit: 2834

which grippingly engages the shaft 33, a tapered section 45. Otto teaches the sleeve gripping the shaft (inherently adapted to flex/stretch around the shaft).

- 6. Claims 1, 4, 8, 11, and 14 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Cunningham (US 3885176). Cunningham teaches a shield 61/62 having a cylindrical shroud and a hub which obstructs the opening in the shroud to prevent dirt from getting into the motor. Cunningham teaches the hub and shroud are integrally molded, and adapted to flex around the shaft.
- 7. Claims 1, 4, 5, and 8-10 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Else (US 1992818). Else teaches a shield 29 having an shroud 32 and a hub which obstructs the opening in the shroud to prevent dirt from getting into the motor. The hub being tapered the center of the opening to mate with a collar 63 on the shaft. Else teaches the hub and shroud are integrally formed.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claim 3, 6, 7, and 12 are rejected under 35 U.S.C. 102(b) as being clearly Cunningham or Otto, in further view of Braun (US 6384501). Cunningham or Otto teach

Art Unit: 2834

every aspect of the invention except the slots, including three slots 1d, on the hub which expand during insertion of the shaft. Braun teaches slots are included on the hub with at least three slots on the hub to provide localized force during press fitting of the shaft. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the dust shield of Cunningham or Otto with the slots of Braun to assure proper positioning of the dust shield near the housing.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai at (571) 272 - 2036.

The examiner can be normally contacted on Monday through Friday from 8:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Darren Schuberg, can be reached at (571) 272 - 2044. The facsimile number for the Group is (703) 872 - 9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

PRIMARY EXAMINER

Business Center (EBC) at 866-217-9197 (toll-free).

Karl I Tamai PRIMARY PATENT EXAMINER May 26, 2005